

BookletChartTM

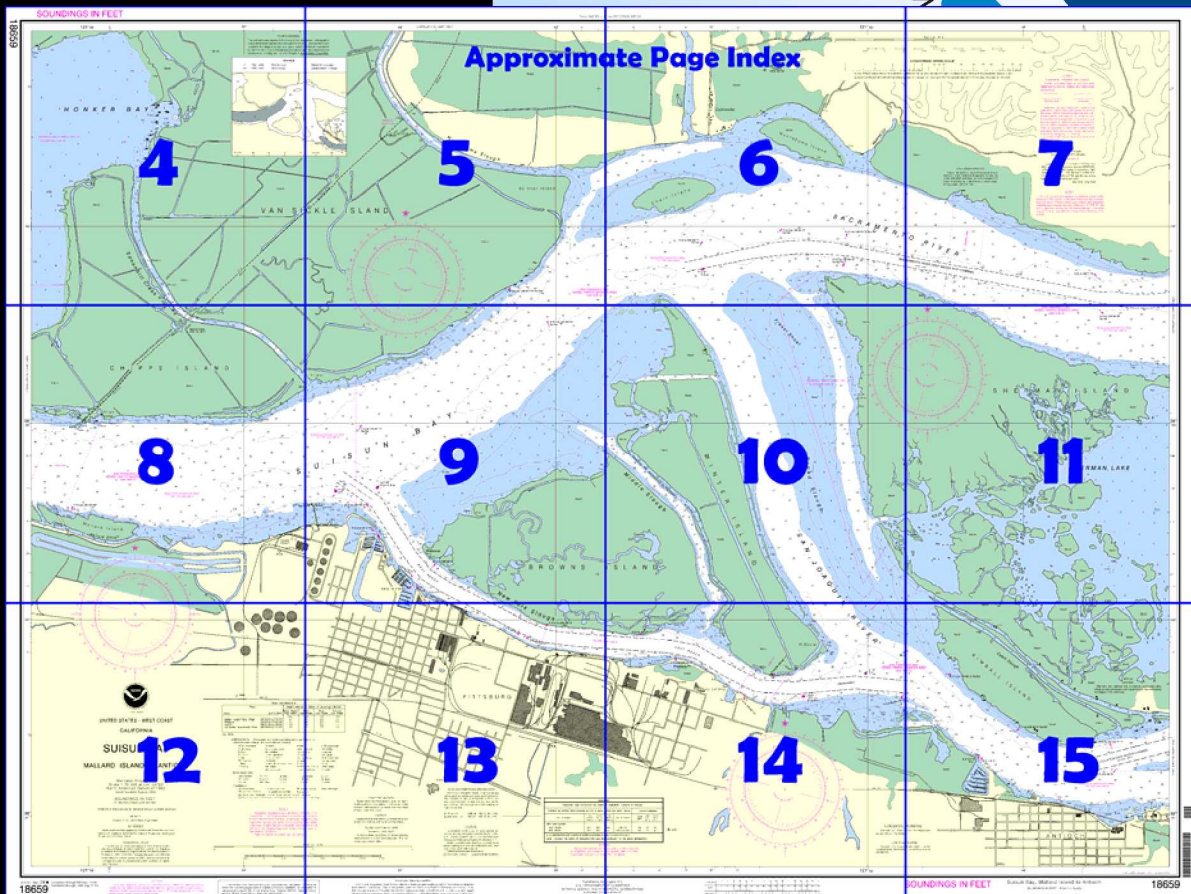
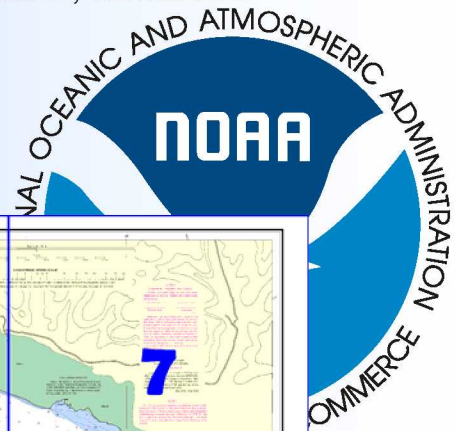
Suisun Bay – Mallard Island to Antioch

(NOAA Chart 18659)



A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ✓ Complete, reduced scale nautical chart
- ✓ Print at home for free
- ✓ Convenient size
- ✓ Up to date with all Notices to Mariners
- ✓ United States Coast Pilot excerpts
- ✓ Compiled by NOAA, the nation's chartmaker.



Home Edition (not for sale)



(551) Several small-craft facilities are at Pittsburg and Antioch.

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

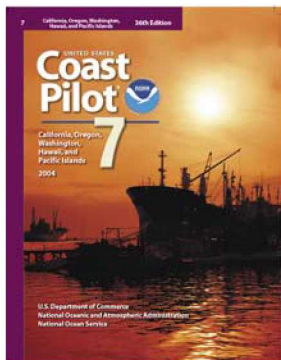
This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



[Coast Pilot 7, Chapter 7 excerpts]

(541) **Pittsburg**, on the S side of New York Slough 12 miles E of Suisun Point bridges, is a manufacturing city with several deepwater berths.

(542) The PGE-Pittsburg Fuel Pier, about 0.3 mile W of **New York Point**, is an offshore wharf with 1,070 feet of berthing space, 35 feet alongside, and a deck height of 14 feet. It is used for receiving and transshipping petroleum products.

(546) **Antioch**, on the S side of San Joaquin River 16 miles E of Suisun Point

bridges, is a manufacturing city with waterborne commerce.

(549) There are also barge facilities at Antioch.

(550) The Fulton Shipyard, on the E edge of the city, has a marine railway that can haul out vessels up to 350 tons for general repairs. The yard repairs auxiliary vessels such as towboats and barges.

Table of Selected Chart Notes

HEIGHTS

Heights in feet above Mean High Water.

Corrected through NM Sep. 11/04
Corrected through LNM Aug. 31/04

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

PLANE COORDINATE GRID

(based on NAD 1927)

California State Grid Zone 11, is indicated by dashed ticks at 5,000 foot intervals. The last three digits are omitted.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

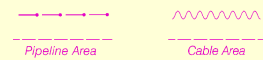
Station positions are shown thus:

○ (Accurate location) ◐ (Approximate location)

CAUTION

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:



Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.

Covered wells may be marked by lighted or unlighted buoys.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 7 for important supplemental information.

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Mt. Plise, CA KHB-49 162.40 MHz WX2
Sacramento, CA KEC-57 162.55 MHz WX1

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System of 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.288" southward and 3.843" westward to agree with this chart.

NOTE B

CAUTION

Mariners are warned that numerous uncharted piles, snags, pumps, and pipes, some submerged, may exist along the edges of the waterway.

NOTE C

The U.S. Coast Guard operates a mandatory Vessel Traffic Services (VTS) system in the San Francisco Bay and surrounding areas. Vessel operating procedures and designated radiotelephone frequencies are published in 33 CFR 161, the U.S. Coast Pilot, and/or the VTS User's Manual. The entire area of the chart falls within the Vessel Traffic Services (VTS) system.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 11th Coast Guard District in Alameda, California or at the Office of the District Engineer, Corps of Engineers in Sacramento, California.

Refer to charted regulation section numbers.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner.

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)
Aids to Navigation (lights are white unless otherwise indicated):

| | | | |
|-------------------|--------------------------|------------------------|--------------------|
| AERO aeronautical | G green | N nun | R TR radio tower |
| Al alternating | IQ interrupted quick | CBSC obscured | Rot rotating |
| B black | Is isophase | Oc occulting | s seconds |
| Bn beacon | LT HO lighthouse | Or orange | SEC sector |
| C can | M nautical mile | Osc oscillating | St M statute miles |
| DIA diaphone | m minutes | Q quick | VQ very quick |
| F fixed | MICRO TR microwave tower | R red | W white |
| Fl flashing | Mkr marker | Ra Ref radar reflector | WHIS whistle |
| | Mo morse code | R Bn radiobeacon | Y yellow |

Bottom characteristics:

| | | | | |
|---------------|-----------|---------|-------------|-----------|
| Blds boulders | Co coral | gy gray | Oys oysters | so soft |
| bk broken | G gravel | h hard | Rk rock | Sh shells |
| Cy clay | GrS grass | M mud | S sand | sy sticky |

Miscellaneous:

| | | | |
|--|-------------------------|----------------------|-----------------|
| AUTH authorized | Obstm obstruction | PD position doubtful | Subtm submerged |
| EX existence doubtful | PA position approximate | Rep reported | |
| Wreck, rock, obstruction, or shoal swept clear to the depth indicated. | | | |
| (2) Rocks that cover and uncover, with heights in feet above datum of soundings. | | | |

SUISUN BAY

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2008

| CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW) | | | | PROJECT DIMENSIONS | | |
|--|----------------------|------------------------|-----------------------|--------------------|--------------|-----------------------------------|
| NAME OF CHANNEL | LEFT OUTSIDE QUARTER | MIDDLE HALF OF CHANNEL | RIGHT OUTSIDE QUARTER | DATE OF SURVEY | WIDTH (FEET) | LENGTH (NAUT. MILES) DEPTH (FEET) |
| NEW YORK SLOUGH | | | | | | |
| WEST REACH | 32 | 33 | 33 A | 4-08 | 400 | 1.3 35 |
| EAST REACH | 34 | 33 | 34 | 4-08 | 400 | 1.7 35 |

A. AN OBSTRUCTION WITH A DEPTH OF 36 FEET IS LOCATED AT 38° 02' 41.2"N 121° 53' 21.32"W.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION.

TIDAL INFORMATION

| Place | | Height referred to datum of soundings (MLLW) | | | |
|--------------------------------|--------------------|--|-----------------|----------------|-------------------|
| Name | (LAT/LONG) | Mean Higher High Water | Mean High Water | Mean Low Water | Extreme Low Water |
| | | feet | feet | feet | feet |
| Mallard Island Ferry Wharf | (38°03'N/121°55'W) | 4.1 | 3.6 | 0.6 | -2.0 |
| Pittsburg | (38°02'N/121°53'W) | 4.1 | 3.6 | 0.6 | -1.5 |
| Antioch | (38°01'N/121°49'W) | 3.9 | 3.4 | 0.6 | -- |
| Collinsville, Sacramento River | (38°04'N/121°51'W) | 4.0 | 3.5 | 0.6 | -2.0 |

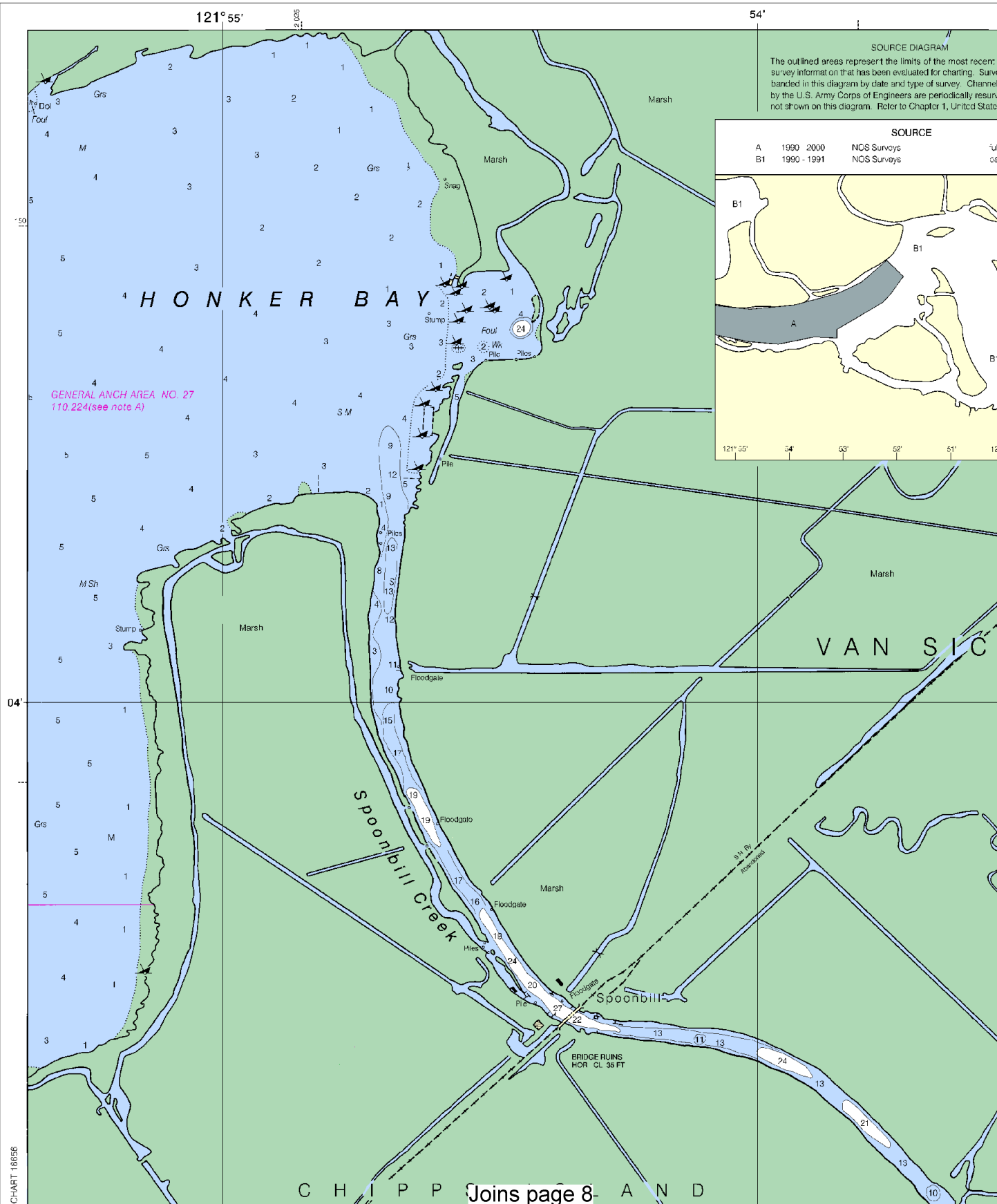
(Jun 2004)

PRINT-ON-DEMAND CHARTS

NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at 1-800-584-4683, <http://NauticalCharts.gov>, help@NauticalCharts.gov, or OceanGrafix at 1-877-56CHART, <http://OceanGrafix.com>, or help@OceanGrafix.com.

SOUNDINGS IN FEET

18659



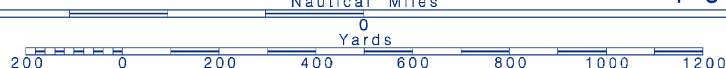
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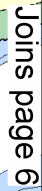


Printed at reduced scale.

~~SCALE 1:10,000~~
Nautical Miles

See Note on page 5.





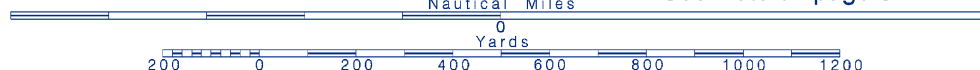
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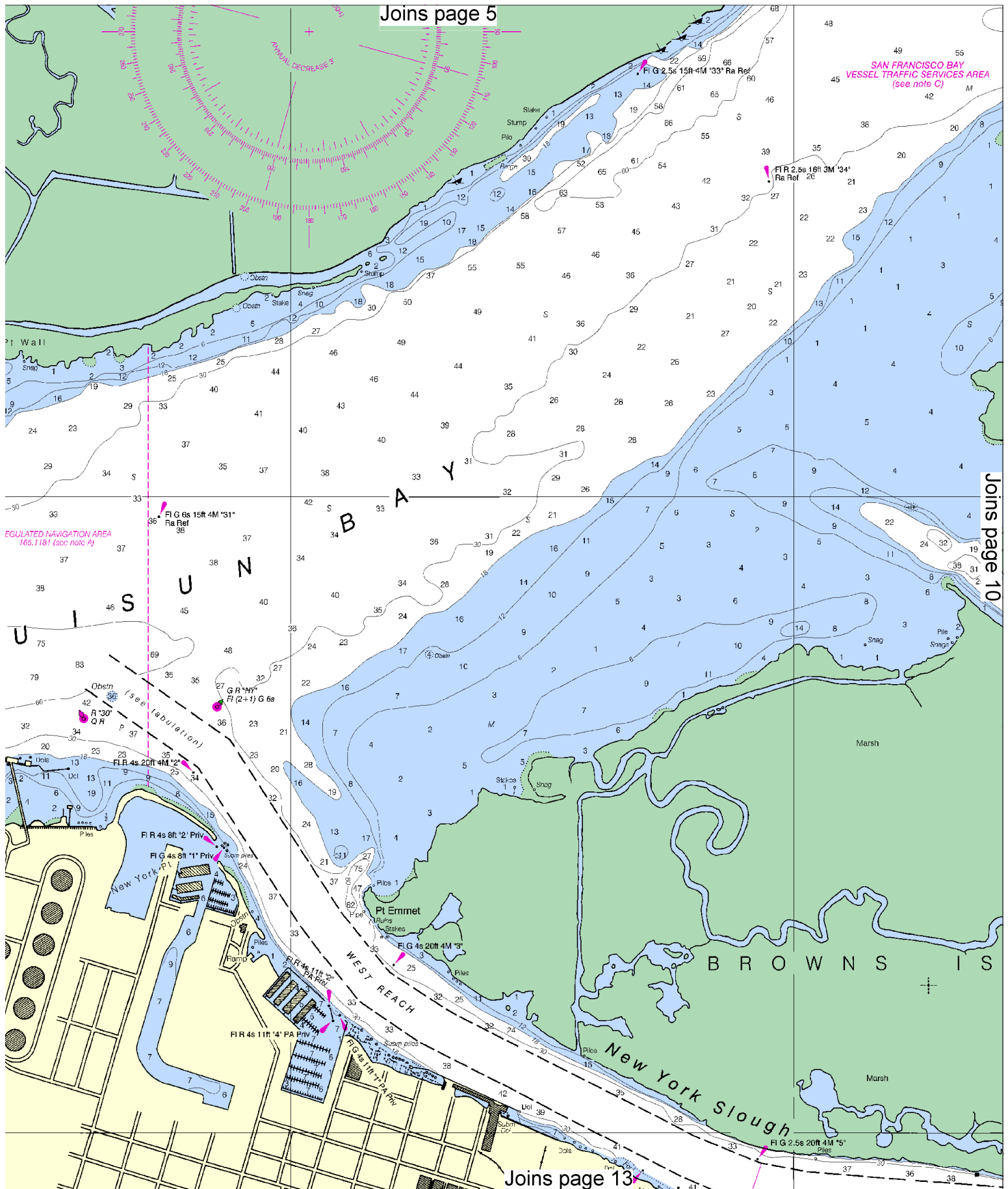


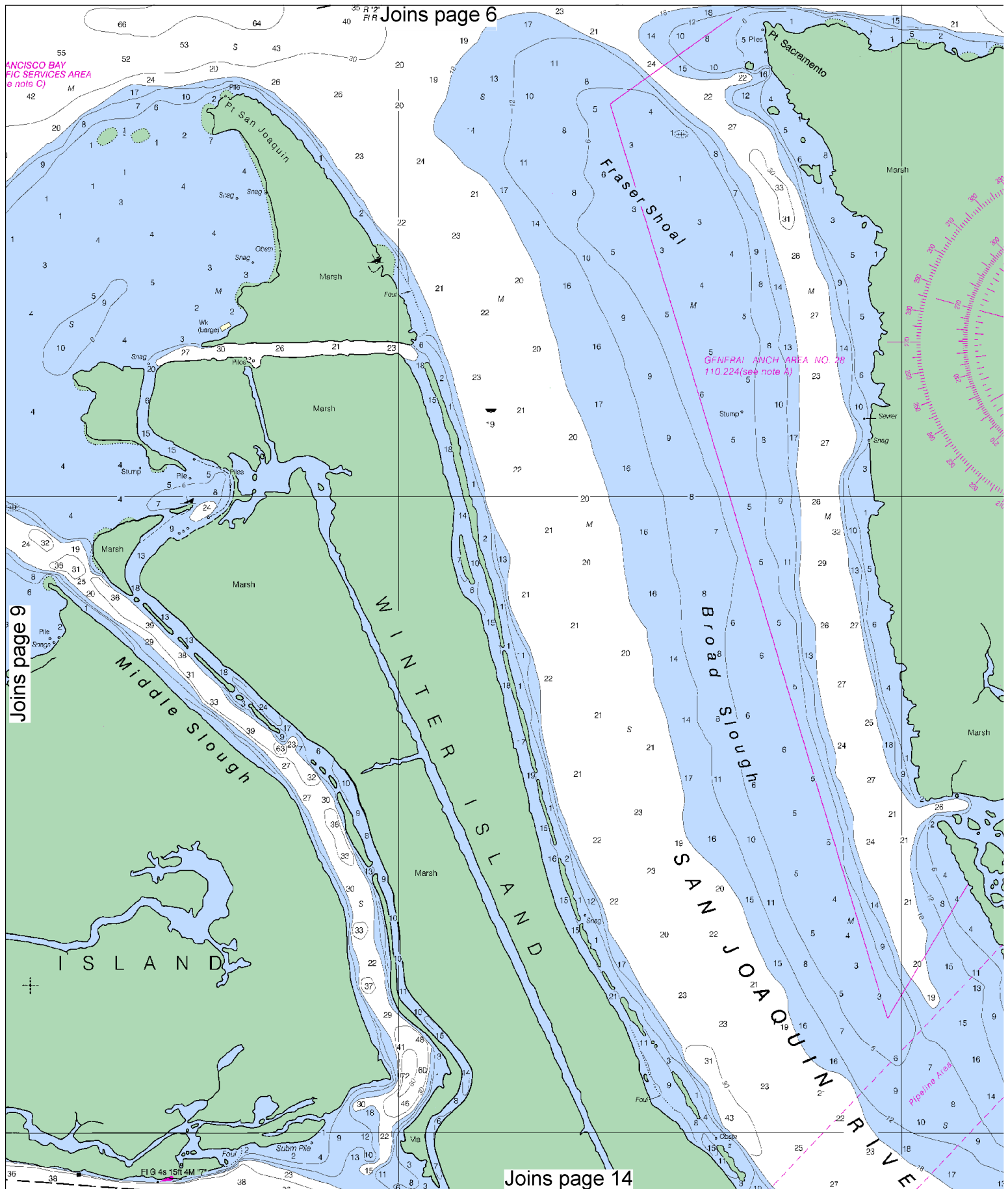
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~~SCALE 1:10,000~~
Nautical Miles

See Note on page 5.







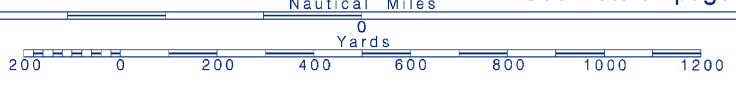
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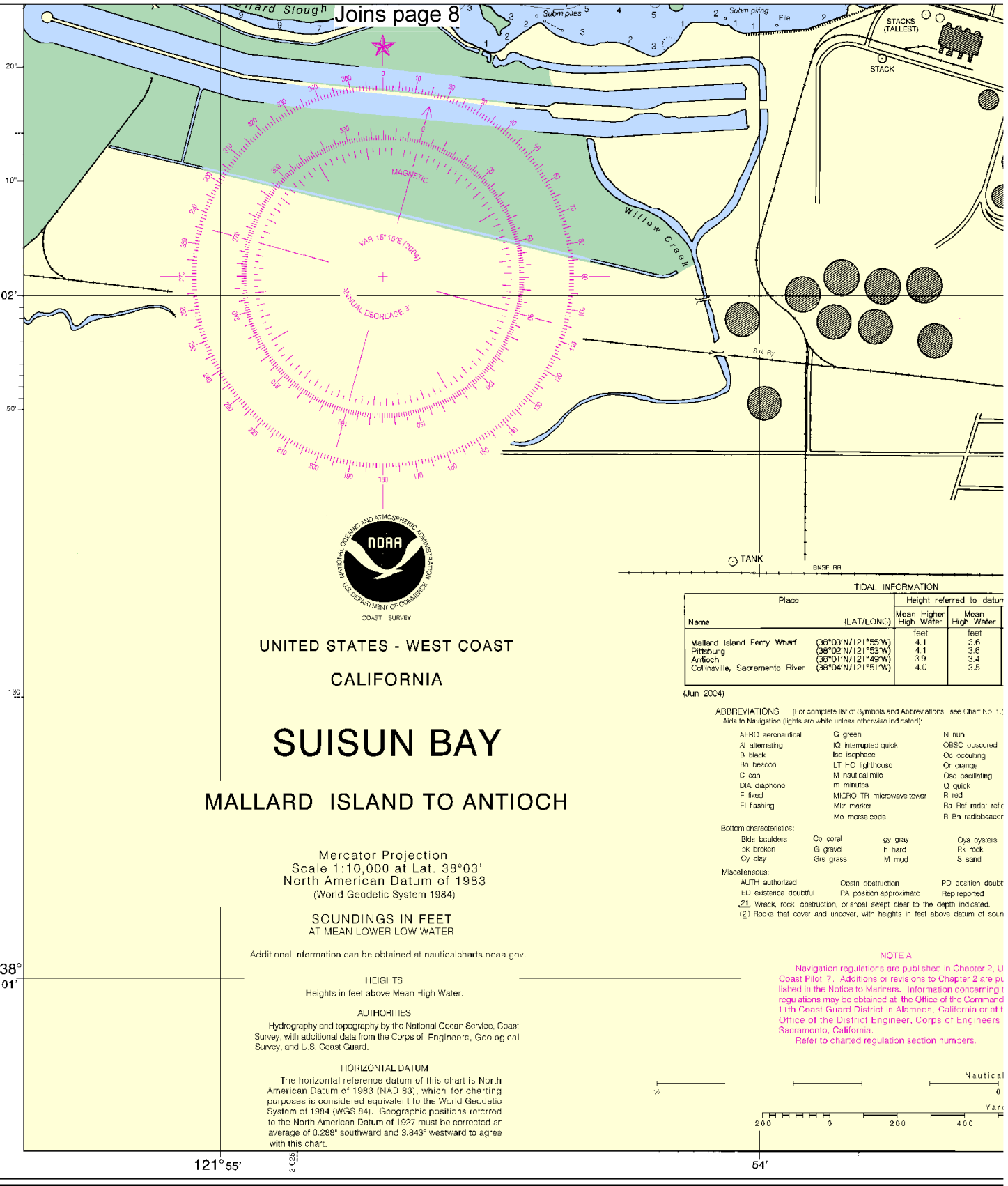
Printed at reduced scale.

SCALE 1:10,000
Nautical Miles

See Note on page 5.







15th Ed., Sep. 04
18659
Corrected through NM Sep. 11/04
Corrected through LNM Aug. 31/04

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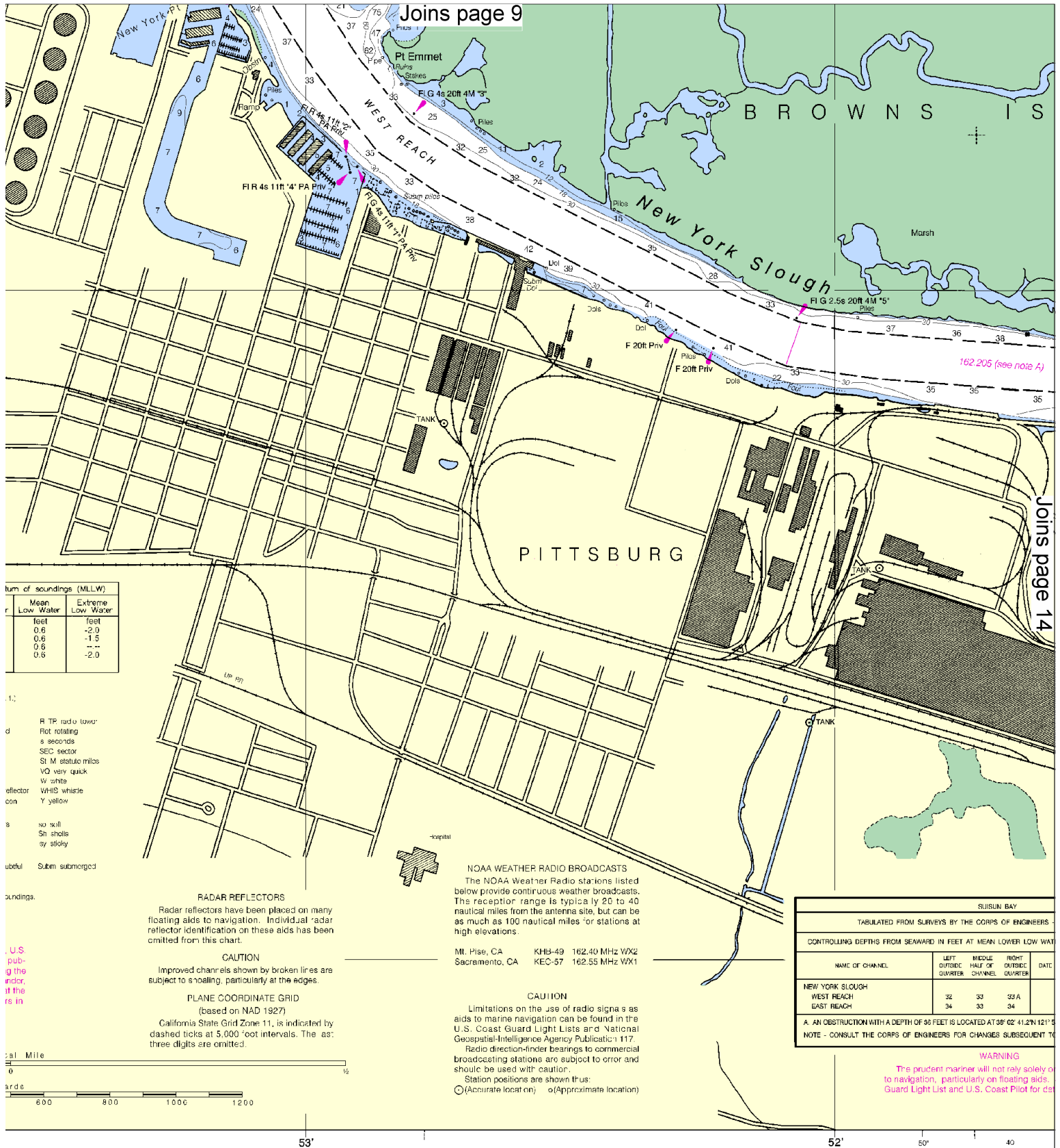


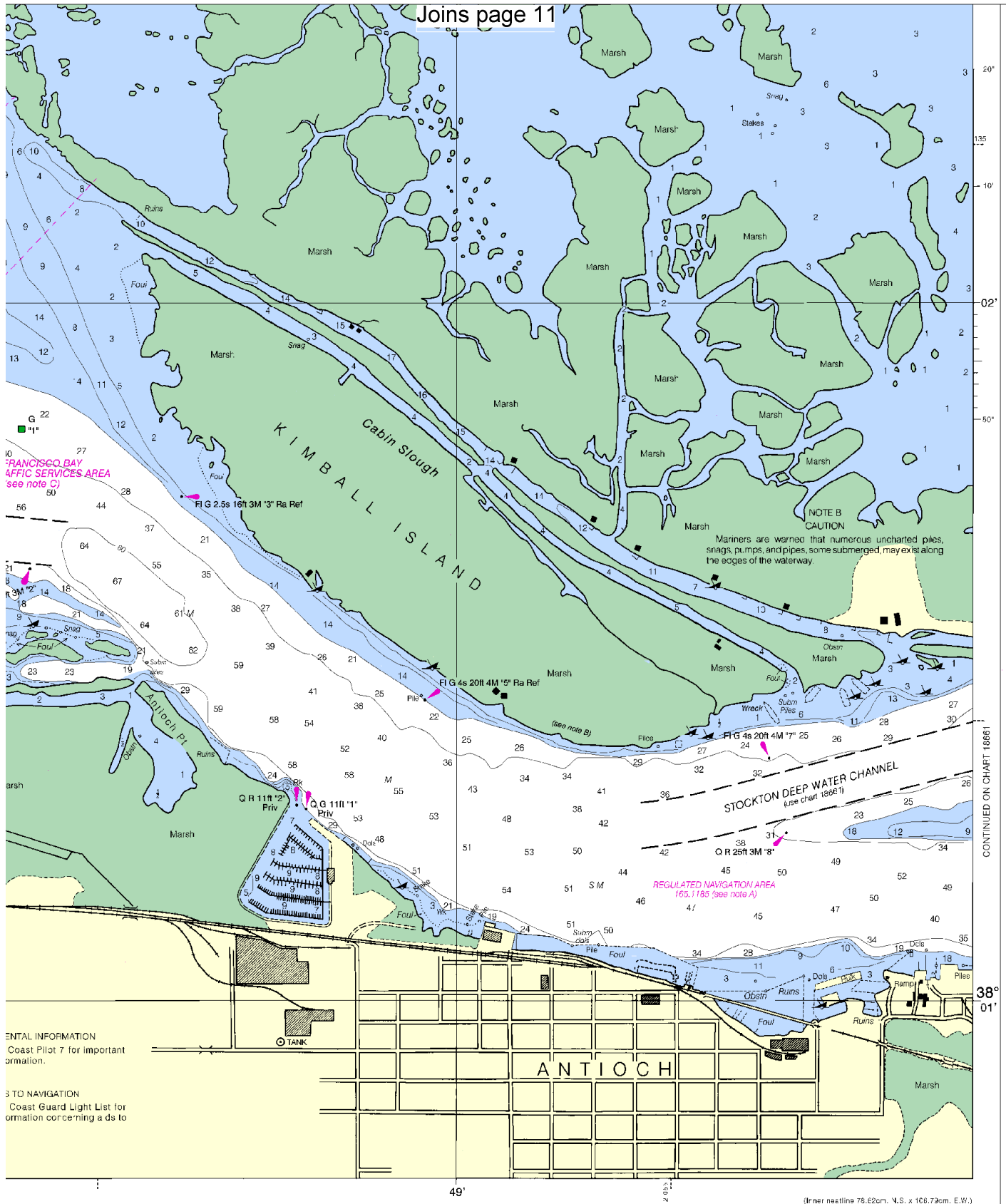
Printed at reduced scale.

SCALE 1:10,000
Nautical Miles

See Note on page 5.







CONTINUED ON CHART 18661

SOUNDINGS IN FEET

Suisun Bay, Mallard Island to Antioch
SOUNDINGS IN FEET - SCALE 1:10,000

18659

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EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

Channels 68, 69, 71, 72 & 78A – Recreational boat channels.

Distress Call Procedures

1. Make sure radio is on.
2. Select Channel 16.
3. Press/Hold the transmit button.
4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
5. Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
6. Release transmit button.
7. Wait for 10 seconds – If no response Repeat MAYDAY Call.

HAVE ALL PERSONS PUT ON LIFE JACKETS !!

Mobile Phones – Call 911 for water rescue.

Coast Guard Search & Rescue – 510-437-3700

Coast Guard San Francisco – 415-399-3479

Commercial Vessel Assistance – 1-800-367-8222

NOAA Weather Radio – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

Getting and Giving Help – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



NOAA CHARTING PUBLICATIONS

Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S., including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: www.NauticalCharts.NOAA.gov.

Official Print-on-Demand Nautical Charts – These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at www.OceanGrafix.com.

Official Electronic Navigational Charts (NOAA ENC[®]) – ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official Raster Navigational Charts (NOAA RNC[™]) – RNCs are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official BookletCharts[™] – BookletCharts[™] are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is www.NauticalCharts.gov/bookletcharts.

Official PocketCharts[™] – PocketCharts[™] are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

Official U.S. Coast Pilot[®] – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at www.NauticalCharts.NOAA.gov.

Official On-Line Chart Viewer – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is www.NauticalCharts.gov/viewer.

Official Nautical Chart Catalogs – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to <http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm>.

Internet Sites: www.NauticalCharts.NOAA.gov, www.NOAA.gov, www.TidesandCurrents.NOAA.gov, www.NOS.NOAA.gov.